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PATENT APPLICATION
Docket No 15689.51

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Sadayuki ABETA et al.

Serial No.:

09/446,560

Art 1 Unit
214

Filing Date:

December 22, 1999

Confirmation No.:

n/a

For:

CDMA RECEIVER AND CDMA
TRANSMITTER/RECEIVERREVOCATION AND SUBSTITUTE POWER OF ATTORNEY

Honorable Commissioner of Patents
and Trademarks
Washington, DC 20231

Sir:

The undersigned, Yoshitaro Shimanuki, declares: that he is the Intellectual Property Executive Manager of NTT DoCoMo, Inc., and that he is authorized to execute this Revocation and Substitute Power of Attorney on behalf of NTT DoCoMo, Inc.; and that NTT DoCoMo, Inc. is the assignee of the entire interest of the above-identified application, as shown by the assignment recorded in the United States Patent Office at Reel 010559, Frame 0209, a copy of said assignment is attached at Exhibit A hereto; and name change documents filed October 23, 2002, a copy of said document is attached at Exhibit B, and that the documents have been reviewed by him, and to the best of his knowledge and belief title is in the assignee NTT DoCoMo, Inc.. The assignee, NTT DoCoMo, Inc., hereby revokes all previous powers of attorney in the above-identified application, and now hereby appoints all attorneys under customer number:



022913

PATENT TRADEMARK OFFICE

of WORKMAN, NYDEGGER & SEELEY, 1000 Eagle Gate Tower, 60 East South Temple, Salt Lake City, Utah 84111, as attorneys with full power of substitution and revocation, to prosecute said application, to make alterations and amendments therein, to receive the Letters Patent, and to transact all business in the Patent and Trademark Office connected therewith. The declarant further declares that all statements made herein of his own knowledge are true; and further that these statements were made with the knowledge that willful, false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful, false statements may jeopardize the validity of the application or any patent issuing thereon. All correspondence and telephonic communications should be directed to:

ADRIAN J. LEE
WORKMAN, NYDEGGER & SEELEY
1000 Eagle Gate Tower
60 East South Temple
Salt Lake City, Utah 84111

All previous powers of attorney are hereby revoked.

Signed this 30 day of September, 2002.

Yoshitaro Shimanuki

Yoshitaro Shimanuki
Intellectual Property Executive Manager
NTT DoCoMo, Inc.
11-1, Nagatacho 2-Chome
Chiyoda-Ku
Tokyo 100-6150, Japan

10/25/2006 18:22 FAX 8013281707

WORKMAN NYDEGGER

012/040



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RECORDATION DATE: 12/22/1999

REEL/FRAME: 010559/0206
NUMBER OF PAGES: 5

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

ABETA, SADAYUKI

DOC DATE: 12/15/1999

ASSIGNOR:

SAWAHASHI, MAMORU

DOC DATE: 12/15/1999

ASSIGNOR:

ADACHI, FUMIYUKI

DOC DATE: 12/15/1999

ASSIGNEE:

NTT MOBILE COMMUNICATIONS NETWORK,
 INC.
 10-1, TORANOMON 2-CHOME, MINATO-KU
 TOKYO 105-8436, JAPAN

DOC DATE: 12/15/1999

SERIAL NUMBER: 09446560
PATENT NUMBER:FILING DATE: 12/22/1999
ISSUE DATE:

RECORDS UPDATED
 05/08/00 *[Signature]*

010559/0206 PAGE 2

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Expires 06/30/09
GSA 0651-0027

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09/446560
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12/15/99

Name (line 1) Sadayuki AbetaName (line 2)

Second Party

Execution Date
Month Day Year

Name (line 1) Mamoru SawahashiName (line 2)

Receiving Party

Mark if additional names of receiving parties attached

Name (line 1) NTT Mobile Communications Network, Inc.Name (line 2) Address (line 1) 10-1, Toranomon 2-chome, Minato-kuAddress (line 2) Address (line 3) Tokyo 105-8436

Japan

State/County

Zip Code

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FC:581 Name Larry Liberchuk, Reg. No. 40,352Address (line 1) Brown Raysman Millstein Felder & Steiner LLPAddress (line 2) 120 West 45th StreetAddress (line 3) New York, NY 10036Address (line 4)

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PAGE 15/40 * RCVD AT 10/25/2006 8:17:54 PM [Eastern Daylight Time] * SVR:USPTO-EFXRF-2/19 * DSN:2738300 * CSID:8013281707 * DURATION (mm:ss):14:00

FORM PTO-1619B
Expires 06/30/08
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If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.

Month Day Year **Patent Cooperation Treaty (PCT)**PCT PCT PCT

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Larry Liberchuk

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Signature

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Patent Application Number(s)

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ASSIGNMENT

WHEREAS, we, Sadayuki ABETA, a citizen of Japan, residing at 4-18-4-102, Nobi, Yokosuka-shi, Kanagawa 239-0841, JAPAN; Mamoru SAWAHASHI a citizen of Japan, residing at 1-59-17, Tomiokanishi, Kanazawa-ku, Yokohama-shi, Kanagawa 236-0052, JAPAN; and Fumiaki ADACHI, a citizen of Japan, residing at 6-12-4, Tomiokanishi, Kanazawa-ku, Yokohama-shi, Kanagawa 236-0052, JAPAN have invented one or more inventions disclosed in an application for Letters Patent of the United States titled

CDMA RECEIVER AND CDMA TRANSCEIVER

(hereinafter referred to as "said application"), said application having been filed herewith.

WHEREAS, NTT MOBILE COMMUNICATIONS NETWORK, INC., (hereinafter referred to as "the Assignee"), a Japanese corporation, having a place of business at 10-1, Toranomon 2-chome, Minato-ku, Tokyo 105-8436 JAPAN; is desirous of obtaining all right, title and interest in, to and under said invention(s) and said application; and

NOW, THEREFORE, for good and valuable considerations, the receipt and sufficiency of which we hereby acknowledge, we have sold, assigned, transferred and set over, and by these presents hereby sell, assign, transfer and set over to the Assignee all right, title and interest in, to and under said invention(s) and said application, including the right to apply for any Letters Patent of the United States of America and in any and all foreign countries on said invention(s), and any and all other applications for Letters Patent on said invention(s), in whatsoever countries, including all divisional, renewal, substitute, continuation, continuation-in-part and convention applications based in whole or in part upon said invention(s) or upon said application, and any and all Letters Patent which may issue thereon. We hereby covenant and agree that we will, upon request of the Assignee, communicate to the Assignee any facts known to us relating to said invention(s) and the history thereof, testify in any legal proceeding, execute all lawful papers including, without limitation all divisional, continuing and reissue applications and all rightful oath and declarations, and generally do all further acts which may be deemed necessary by the Assignee to obtain and enforce proper patent protection for said invention(s) in all countries.

IN TESTIMONY WHEREOF, we have executed this document on the date indicated below.

Date: December 15, 1999

Sadayuki Abeta

(Signature) Sadayuki ABETA

Date: December 15, 1999

Mamoru Sawahashi

(Signature) Mamoru SAWAHASHI

Date: December 15, 1999

Fumiya Adachi

(Signature) Fumiyuki ADACHI

10/25/2006 18:25 FAX 8013281707

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020/040

FORM PTO-1595 (Modified)
(Rev. 03-01)
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4. Application number(s) or patent numbers(s): If this document is being filed together with a new application, the execution date of the application is: _____		City: _____ State: _____ ZIP: _____
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Additional numbers attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
5. Name and address of party to whom correspondence concerning document should be mailed: Name: <u>Adrian J. Lee</u>		6. Total number of applications and patents involved: 52
Internal Address: _____		7. Total fee (37 CFR 3.41): \$ 2380.00
Street Address: <u>Workman, Nydegger & Seeley</u> <u>1000 Eagle Gate Tower, 60 East South Temple</u>		<input type="checkbox"/> Enclosed - Any excess or insufficient fee should be credited or debited to deposit account
City: <u>Salt Lake City</u> State: <u>UT</u> ZIP: <u>84111</u>		<input checked="" type="checkbox"/> Authorized to be charged to deposit account
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ADRIAN J. LEE

Name of Person Signing

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Date

ATTACHMENT "A"

WNS File	Full Title	Patent/Application No.	Filed/Issued
15689.1	A CDMA Communications Method and System	5,686,113	12/17/1998
15689.2	Frequency Error Correction Device of a Spread-Spectrum Communication Receiver	5,774,484	6/30/1998
15689.3	Communication System Capable of Performing FDMA Transmission	5,715,235	2/3/1998
15689.4	Code Sequence Generator	5,696,616	1/21/1998
15689.5	Transmission Power Control Method and Communication System Using the Same	5,686,165	10/16/1998
15689.6	Transmission Power Control Method and a Transmission Power control Apparatus	5,590,409	12/31/1996
15689.7	Transmission Power Control Method of A Spread-Spectrum Communication System, and a Spread-Spectrum Communication System employing the Control Method	5,604,766	2/16/1997
15689.8	A Transmission Power Control Method and Apparatus for Mobile Communications Using a CDMA System	5,923,488	4/22/1997
15689.9	Receiver and Repeater for Spread Spectrum Communications	5,652,785	7/29/1997
15689.10	Code Division Multiple Access Transmitter and Receiver	5,748,623	5/5/1998
15689.11	Spread Spectrum Communication Receiver	5,594,754	1/14/1997
15689.12	Correlation Detector and Communication Apparatus	5,638,382	6/10/1997
15689.13	Coherent Detector and a Coherent Detection Method for a Digital Communication Receiver	5,692,015	11/26/1997
15689.14	Automatic Gain Control Apparatus, Communication System, and Automatic Gain Control Method	5,745,631	4/28/1998
15689.15	CDMA Communications Method and System	5,734,848	3/31/1998
15689.16	CDMA Demodulator and Demodulation Method	5,694,388	12/2/1997
15689.17	CDMA Multuser Receiver and Method	5,724,378	3/3/1998
15689.18	Mobile Satellite Communication System	5,835,848	11/10/1998
15689.19	Speech Information Freeze Out Control Method and Equipment In Mobile Satellite Communication System	5,745,492	4/28/1998
15689.20	Mobile Communications System and Method With Message Storing Function	6,084,678	5/16/2000
15689.21	Apparatus and Method for Establishing Acquisition of Spreading Code In CDMA Transmission System	5,914,843	6/22/1999
15689.22	Coherent Tracking Apparatus and Method for CDMA Recalver	5,888,666	4/17/1999
15689.23	Mobile Communications System and Communications Network	5,828,958	10/27/1998

ATTACHMENT "A"

WNS File	Full Title	Patent/Application No.	Filed/Issued
15689.24	Multicellular Transmission Method and Apparatus	5,840,385	2/25/1999
15689.25	Variable Rate Transmission Method, Transmitter, and Receiver Using the Same	5,896,374	4/20/1999
15689.26	Transmitter Receiver for Mobile Communication System	5,850,393	12/15/1998
15689.27	CDMA Mobile Communication Method, System and Mobile Station Apparatus	5,853,324	9/14/1999
15689.28	CDMA Demodulating Apparatus	6,137,788	10/24/2000
15689.29	Acquisition Method and System of Spreading Code	5,840,433	6/17/1999
15689.30	DS/CDMA Transmission Method	6,097,711	8/1/2000
14589.31	Transmission System between Base Station and Switching Center of Mobile Communications Using Fixed Length Cell	6,049,963	6/6/1997
15689.32	Short Cell Management Unit and Method	5,909,428	6/1/1999
15689.33	CDMA Communication Method and Group Spreading Modulator	6,084,684	7/4/2000
15689.34	Sliding Correlator Used in CDMA Systems to Establish Initial Synchronization	5,768,306	6/16/1998
15689.35	Diversity Receiver and Its Control Method	6,069,912	5/30/2000
15689.36	Rake Receiver	6,026,115	2/15/2000
15689.37	Micro-frame Multiplex Transmitter	6,051,354	5/8/2000
15689.38	Method and Instrument for Measuring Receiving SIR and Transmission Power Controller	6,034,952	3/7/2000
15689.39	Signal transmitting Method, Transmitter, Receiver, and Spectrum Code Synchronizing Method for Mobile Communications System	6,167,037	12/26/2000
15689.40	ATM Transmission Method Having Silence Compression Controlling Function and System Transmitter and Receiver Using the Method	6,130,868	10/10/2000
15689.41	Signal Transmission Method, Mobile Station and Base Station In a CDMA Mobile Communication System	6,310,868	10/30/2001
15689.42	Data Transmitting Method, Data Transmitting System and Transmitter and Receiver	6,108,384	10/30/2001
15689.43	Power Controller for Mobile Communication System Wherein a Signal to Interference Threshold is Dynamically Moved Based on an Error Rate Measurement	6,341,224	1/22/2002
15689.44	Radio Paging System	6,358,579	3/12/2002
15689.45	Mobile Communication System, Mobile Station and Diversity Handover Branch Control Method	6,092,306	2/4/1999
15689.46	Bandwidth Control Method of Packet Data in Packet Switching Network and Packet Switching System	6,093,488	6/30/1999

ATTACHMENT "A"

WNS File	Full Title	Patent/Application No.	Filed/Issued
15689.47	Packet Communications Network	6,310,859	10/30/2001
15689.48	Channel Estimation Unit, CDMA Receiver and CDMA Transceiver with Channel Estimation Unit	09/376,906	8/17/1999
15689.49	Base Station in Mobile Communication System	09/403,181	10/15/1999
15689.50	Method and Apparatus for Traffic Control	09/423,131	11/5/1999
15689.51	CDMA Receiver and CDMA Transceiver	09/448,560	12/22/1999
15689.52	Packet Transmission Method, Packet Transmission System and Packet Data Transmission Medium on Mobile Communications Network System	09/462,295	1/6/2000